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APPLICATION NO	. 8	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,159		10/02/2003	Robert E. Sparks	P63413US2	P63413US2 6699	
136	7590	06/22/2005		EXAMINER		
JACOBSO 400 SEVE		MAN PLLC		LIN, KU	ANG Y	
SUITE 600		515 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ART UNIT	PAPER NUMBER	
WASHING	GTON, DO	20004		1725		
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DATE MAILED: 06/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			M			
	Application No.	Applicant(s)				
	10/676,159	SPARKS ET AL.	•			
Office Action Summary	Examiner	Art Unit				
	Kuang Y. Lin	1725				
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet w	rith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 136(a). In no event, however, may a ply within the statutory minimum of thi d will apply and will expire SIX (6) MO ate, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	n.			
Status						
1) Responsive to communication(s) filed on 06	<i>June 2005</i> .					
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.					
3) Since this application is in condition for allow		·	;			
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 15-20 is/are pending in the application 4a) Of the above claim(s) 19 and 20 is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 15-18 is/are rejected. 7) Claim(s) is/are objected to. 	·	ì.				
8) Claim(s) are subject to restriction and	or election requirement.	•				
Application Papers						
9)☐ The specification is objected to by the Examir	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ ac	ccepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to the	***					
Replacement drawing sheet(s) including the corre	· ·	• • • • • • • • • • • • • • • • • • • •	1).			
11) The oath or declaration is objected to by the R	Examiner. Note the attache	d Office Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of: 1.☐ Certified copies of the priority document 		§ 119(a)-(d) or (f).				
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the pri		· · ·				
application from the International Bure	• • • •					
* See the attached detailed Office action for a lis	st of the certified copies not	received.				
Attachment(s)	-					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)				

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 10/2/03.

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date. _

6) Other: _

5) Notice of Informal Patent Application (PTO-152)

Application/Control Number: 10/676,159 Page 2

Art Unit: 1725

Applicant in response to the restriction requirement elected Group I, claims 15 of the invention without traverse. Accordingly, claims 19-20 stand withdrawn from further consideration. The restriction requirement is hereby made Final.

- 2. Applicant is required to up date in the specification the status of the parent application No. 09/922,862.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 15 and 18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Bauer et al.

Page 3

The apparatus of Bauer et al. comprises an energy attrition unit 20 and classifier 21 for reclaiming foundry sand. Thus, the apparatus of Bauer et al. is capable of performing the function as claimed. Applicant is advised that the claimed oolitized particles are work product which is extraneous to the apparatus. Thus, the oolitized particles do not constitute as a limitation in an apparatus claim. Further, ever if the oolitized particles were considered as a limitation, it would have been obvious to manipulate process parameters of Bauer et al. through routine experimentation depending on the type of starting material to be processed and the final product to be obtained.

7. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer et al. and further in view of JP 61-9,942 and Powell.

Bauer et al. substantially show the invention as claimed except that they do not disclose the use of a vibrating grid for separating the particles upstream of the classifier and to provide at least three chambers in the classification region. However, JP '942 shows to provide a vibration screen 41 to facilitate the separation of different size particles. It would have been obvious to provide the vibration screen of JP '942 in the apparatus of Bauer et al. in view of the advantage. Further, Powell shows to provide a classifier with more than three chambers for sorting different size of particles. It would have been obvious to

Application/Control Number: 10/676,159 Page 4

Art Unit: 1725

provide a plurality of chambers in the classifier of Bauer et al. in view of Powell depending on the number of particle sizes to be sorted.

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

9. Claims 15-18 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Patent No. 6,631,808 in view of Bauer et al.

Patent '808 substantially shows the invention as claimed except the energy attrition unit. However, Bauer et al. show to provide an energy attrition unit upstream of the classifier for clearing the particles. It would have been obvious to provide the energy attrition unit of Bauer et al. in the apparatus of Patent '808 in view of the advantage.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuang Y. Lin whose telephone number is 571-272-1179. The examiner can normally be reached on Monday-Friday, 10:00-6:30,.

Application/Control Number: 10/676,159 Page 5

Art Unit: 1725

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas X. Dunn can be reached on 571-272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Kuang Y. Lin Primary Examiner Art Unit 1725